

## CLAIMS

1. A white balance measurement unit for measurement of the intensity of illuminating light of at least two light components making up the illuminating light, wherein

5           said colour measurement unit comprises at least one LED for generating an electronic measurement signal corresponding to the intensity of at least one of said light components in said illuminating light.

2. A white balance measurement unit according to claim 1, the unit comprising  
10           at least one dedicated LED for each one of said light components for generating an electronic measurement signal for each one of said light components.

3. A white balance adjustment device, wherein  
15           the device comprises a white balance measurement unit according to any preceding claim.

4. A white balance adjustment device according to claim 3, the device comprising:  
          an input for receiving at least two electronic colour signals each  
20           corresponding to one of said light components, and  
          an adjusting means for adjusting proportional strength of said colour signals corresponding to said electronic measurement signals.

5. A white balance adjustment device according to claim 3, wherein  
25           the device has means for controlling an electrical image signal using the electronic measurement signal.

6. A white balance adjustment device according to claim 3, wherein  
          the device comprises at least one LED that is arranged to be used both for  
30           white balance adjustment and for exposure control.

7. A recording device for recording an image in an electronic form comprising:

a white balance adjustment device comprising a white balance measurement unit for measurement of the intensity of illuminating light of at least two light components making up the illuminating light, wherein

5 said white balance measurement unit comprises at least one LED for generating an electronic measurement signal corresponding to the intensity of at least one of said light components in said illuminating light; and

said recording device comprises a means for capturing an electronic image of an object.

10 8. A recording device according to claim 7, wherein

the recording device has means for adjusting balance of at least two colour components of the captured electronic image on the basis of the measured intensity of illuminating light of at least two light components.

15 9. A recording device according to claim 7, wherein

said device is selected for the group consisting of: a digital camera, a video camera, a digital video camera, a TV-camera and a mobile station.

20 10. A recording device according to claim 7, wherein

at least one LED is arranged to generate an electronic measurement signal at a certain time and to generate light at another time.

11. A recording device according to claim 7, comprising a mobile telephone.

25 12. A method for white balance measurement comprising the steps of:

measuring the intensity of at least two components of illuminating light, wherein

the measuring of intensity of at least one of said components is carried out by an LED.

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13. A method for white balance adjustment comprising the steps of:

recording an electronic image comprising at least two colour elements,

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